

MAY 31 2007

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Serial No.: 10/705,358
Filed: November 11, 2003
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AMENDMENTS TO THE CLAIMS

Please amend the claims to read as follows and cancel without prejudice or disclaimer the claims marked as canceled:

This listing of claims will replace all prior versions, and listings, of claims in the Application.

Listing of Claims

1-18. (Canceled)

19. (Currently Amended) A digital radio system for obtaining a channel estimate of ~~[[receiving]]~~ a plurality of path-dependent signals, wherein said signals ~~[[including]]~~ include a pilot signal, the radio system comprising:

a digital wireless rake receiver comprising ~~[[:]]~~ a plurality of fingers, wherein said fingers are associated with said path-dependent signals, and wherein said fingers comprise:

~~a demodulator to calculate the pilot signal during an integration window with a duration which is a function of Doppler period; wherein the Doppler period is inverse of Doppler frequency.~~

an integrator for integrating said pilot signal of said associated signal over a symmetric integration window of approximately 13% of a Doppler period of said pilot signal; and

a channel estimator for obtaining the channel estimate of said associated signal based at least partially on said symmetric integration window.

20. (Canceled)

21. (Currently Amended) ~~The A digital radio system as recited in claim 19 wherein an asymmetric integration window is approximately 3% of the Doppler period~~ for obtaining a channel estimate of a plurality of path-dependent signals, wherein said signals include a pilot signal, the radio system comprising:

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a digital wireless rake receiver comprising a plurality of fingers, wherein said fingers are associated with said path-dependent signals, and wherein said fingers comprise:

an integrator for integrating said pilot signal of said associated signal over an asymmetric integration window of approximately 3% of a Doppler period of said pilot signal; and

a channel estimator for obtaining the channel estimate of said associated signal based at least partially on said asymmetric integration window.

22. (Currently Amended) The digital radio system as recited in claim 19, wherein said the pilot integration window is determined at least partially based on a function of Rician parameter.

23. (Currently Amended) The digital radio system as recited in claim 19 wherein said the pilot integration window is determined at least partially on an a function of interference level.

24. (Canceled)

25. (New) The digital radio system as recited in claim 21, wherein said integration window is determined at least partially based on a Rician parameter.

26. (New) The digital radio system as recited in claim 22 wherein said integration window is determined at least partially on an interference level.